ZyXEL

2008

Ethernet Switch

Quick Info. Guide

ZyXEL

Modular Switch

MS7206 Modular Switch

Redundant Management Chassis Switch
Superior System Performance

- Non-blocking 384 Gbps switching capacity
- 192 x Gigabit/32 x 10 Gb Ports per system

Full Redundancy

- Dual, Load-sharing Management and Switch Fabrics
- Power Supplies (1+1)

Full Hot-swap Capability

- Fabric, Modules, Power, Fans

High Connectivity Flexibility

- Mixed 10 Gb, Gigabit copper, fiber and PoE types

MS7206 PoE Starter Kit

Total ports available: 48 Gigabit (192 max)

PoE Starter Kit includes:

- 1x MS7206 Chassis including Fan Tray Dimensions: 435 (W) x 316 (D) x 447 (H) mm
- 1x MM7201 Management Module
- 1x MP7201 Power Supply
- 1x MI7248PWR 48-port 100/1000Base-T Module with full 802.3af 15.4 Watt pr. port
- 1x MP7202 PoE Power Supply

MS7206 SFP Starter Kit

SFP Starter Kit includes:

- 1 x MS7206 Chassis including Fan Tray Dimensions: 435 (W) x 316 (D) x 447 (H) mm
- 1 x MM7201 Management Module
- 1x MP7201 Power Supply
- 1x MI7248PWR 48-port 100/1000Base-T Module with full 802.3af 15.4 Watt pr. port

MM7201

Redundant Management and Switch Fabric

- 192 Gbps Switch Fabric
- Load sharing and non-blocking performance
- Cisco like CLI
- RS-232 and RJ45 console ports

MI7248

Total ports available: 48 Gigabit RJ45

- 48-port 100/1000Base-T

MI7248PWR

Total ports available: 48 Gigabit PoE RJ45

- 48-port 100/1000Base-T with PoE on all ports
- 802.3af full PoE Power (15.4 watt) on each port
- Enabling PoE support on module requires purchase of 1x MP7202 PoE Power Supply per module

MI7248TF

Total ports available: 48 Gigabit (24 SFP slots)

- 24-port 100/1000Base-T
- 24 x Gigabit Fiber slots (requires purchase of mini-GBIC SFP)
- 1 x MP7201 Power Supply
- 1 x MI7248PWR 48-port 100/1000Base-T Module with full 802.3af 15.4 Watt pr. port
- 1 x MP7202 PoE Power Supply

MI7308

Available Q4, 2008

Total ports available: 8 10Gigabit XFP slots

- 4 x 10 Gigabit Fiber XFP slot (requires purchase of XFP's)
- 2 slots for EM422 modules for additional XFP slots
- 16 ports non-blocking using two Management modules

MP7201

Power Supply for MS7206 Chassis

- 600 watt power supply
- One Power Supply delivers enough power to feed a fully equipped Chassis (PoE not included)
- Fully redundant using two Power Supplies

MP7202

PoE Power Supply for MI7248PWR module

- 750 watt PoE power supply
- One PoE Power Supply must be purchased per MI7248PWR module to feed PoE power to the module

EM422 2-slot XFP 10Gb Fiber module

(Requires purchase of 10Gb XFP transceivers. Only for use with XGS 4528F and MI7308)

Managed Layer 3

XGS4528F/XGS4728F

Total ports available: 24, all gigabit

- 24 x Gigabit dual personality ports, choice of 100/1000Base-T (RJ45) or Gigabit Fiber (requires purchase of mini-GBIC SFP)
- 2 x 12 Gb Ports for stacking
- Module port for 2-slot 10Gb XFP Fiber uplink option
- Non-blocking backplane 144 Gbps
- Dimensions: 438 (W) x 310 (D) x 44.45 (H) mm
- Max power consumption: 63 watt/215 BTU/hr
- Also available as 48VDC version, please order Part Number (STD): 91-010-146006B

GS4024

Total ports available: 24, all gigabit

- 20-port 100/1000Base-T
- 4 x Gigabit dual personality ports, choice of 100/1000Base-T (RJ45) or Gigabit Fiber (requires purchase of mini-GBIC SFP)
- Non-blocking backplane 48 Gbps
- Dimensions: 438 (W) x 300 (D) x 44.45 (H) mm
- Max power consumption: 54 watt/184 BTU/hr
- Also available as 48 VDC version, please order Part Number (STD): 91-010-035006B

GS4012F

Total ports available: 12, all gigabit

- 8-port mini-GBIC Gigabit Fiber SFP slots
- 4 x Gigabit dual personality ports, choice of 100/1000Base-T (RJ45) or Gigabit Fiber (requires purchase of mini-GBIC SFP)
- Non-blocking backplane 24Gbps
- Dimensions: 438 (W) x 225 (D) x 44.45 (H) mm
- Max power consumption: 26 watt/89 BTU/hr
- Also available as 48VDC version, please order Part Number (STD) 91-010-059006B

EM422 2-slot XFP 10Gb Fiber module

(Requires purchase of 10Gb XFP transceivers. Only for use with XGS4528F and MI7308)

ZyXEL MS7206 Feature Highlights

- 256* static Vlans, 4096 dynamic Vlans
- Port VLAN Trunking, Port Vlan, IP Subnet Vlan, Vlan stacking (QinQ)
- STP/RSTP/MRSTP/MSTP resilience
- LACP Link/Trunk Aggregation
- 802.1x with simultaneous MAC address authentication
- IP Source Guard, Loop Guard
- Dual-Rate-Three-Color Traffic management
- IP Multicast, MVR, DVMRP
- MAC forwarding/MAC filtering/MAC freeze
- Layer 2/4 Access Control Lists, based on MAC address, Vlan, IP Address, Protocol, DSCP
- Routing Static Routes, RIP, OSPF, VRRP
- Bandwidth Control in 64 kbps steps
- 8 QoS hardware queues: SPQ, WRR, WRQI
- Diffserv including DSCP to 802.1p mapping
- DHCP Client
- DHCP Relay option 82
- 802.3ah OAM
- RADIUS Accounting, RADIUS MAC log-in
- TACACS+ authentication, accounting
- Jumbo frame support
- Clone feature - copies port settings from one port to other port(s) in one step
- Out-of-band management: Console and RJ45
- Manageable via Cisco-like CLI, Web interface and with possibility to upload text based configuration
- 10U, rackmount brackets included

** min 2048 Static Vlans in future firmware release*

ZyXEL 4000 Series Feature Highlights

- 1024 static Vlans, 4096 dynamic Vlans
- Port VLAN Trunking, Port Vlan, IP Subnet Vlan, Vlan stacking (QinQ)
- STP/RSTP/MRSTP/MSTP resilience
- LACP Link/Trunk Aggregation
- 802.1x with simultaneous MAC address authentication
- IP Source Guard, Loop Guard
- Dual-Rate-Three-Color Traffic management
- IP Multicast, MVR, DVMRP
- MAC forwarding/MAC filtering/MAC freeze
- Layer 2/4 Access Control Lists, based on
- MAC address, Vlan, IP Address, Protocol, DSCP
- Routing : Static Routes, RIP, OSPF, VRRP
- Bandwidth Control in 64 kbps steps
- 8 QoS hardware queues: SPQ, WRR, WRQ
- Diffserv including DSCP to 802.1p mapping
- DHCP Client
- DHCP Relay option 82
- 802.3ah OAM
- RADIUS Accounting, RADIUS MAC log-in
- TACACS+ authentication, accounting
- Jumbo frame support (GS-4012F/GS-4024 only)
- Clone feature - copies port settings from one port to other port(s) in one step
- Out-of-band management: Console and RJ45
- Manageable via Cisco-like CLI, Web interface and with possibility to upload text based configuration
- Backup Power System support 1U, rackmount brackets included

Ethernet Switch
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Managed Layer 2

GS3012

Total ports available: 12, all gigabit

- 8-port 100/1000Base-T
- 4 x Gigabit dual personality ports, choice of 100/1000Base-T (RJ45) or Gigabit Fiber (requires purchase of mini-GBIC SFP)
- Non-blocking backplane 24 Gbps
- Dimensions: 438 (W) x 300 (D) x 44.45 (H) mm
- Max power consumption: 23 watt/79 BTU/hr
- Also available as 48VDC version, please order Part Number (STD): 91-010-039004B

GS3012F

Total ports available: 12, all gigabit

- 8-port mini-GBIC Gigabit Fiber SFP slots
- 4 x Gigabit dual personality ports, choice of 100/1000Base-T (RJ45) or Gigabit Fiber (requires purchase of mini-GBIC SFP)
- Non-blocking backplane 24 Gbps
- Dimensions: 438 (W) x 225 (D) x 44.45 (H) mm
- Max power consumption: 23 watt/79 BTU/hr
- Also available as 48VDC version, please order Part Number (STD): 91-010-050005B

GS2024

Total ports available: 24, all gigabit

- 22-port 100/1000Base-T
- 2 x Gigabit dual personality ports, choice of 100/1000Base-T (RJ45) or Gigabit Fiber (requires purchase of mini-GBIC SFP)
- Non-blocking backplane 48 Gbps
- 1U, rackmount brackets included
- Dimensions: 440 (W) x 300 (D) x 44.45 (H) mm
- Max power consumption: 26 watt/89 BTU/hr

ES3148

Total ports available: 48

- 48-port 10/100Base-TX
- 2 x 100/1000Base-T
- 2 x Gigabit dual personality ports, choice of 100/1000Base-T (RJ45) or Gigabit Fiber (requires purchase of mini-GBIC SFP)
- Non-blocking backplane 12.6 Gbps
- Dimensions: 438 (W) x 300 (D) x 44.45 (H) mm
- Max power consumption: 39.7 watt/136 BTU/hr

ES3124

Total ports available: 28

- 24-port 10/100Base-TX
- 2 x 100/1000Base-T
- 2 x Gigabit dual personality ports, choice of 100/1000Base-T (RJ45) or Gigabit Fiber (requires purchase of mini-GBIC SFP)
- Non-blocking backplane 12.8 Gbps
- Dimensions: 438 (W) x 270 (D) x 44.45 (H) mm
- Max power consumption: 27 watt/92 BTU/hr
- Also available as 48VDC version, please order Part Number (STD) 91-010-004013B

ES3124-F

Total ports available: 28

- 24 x 100Mbit SFP slots
- 2 x mini-GBIC SFP slots
- 2 x Gigabit dual personality ports, choice of 100/1000Base-T (RJ45) or Gigabit Fiber (requires purchase of mini-GBIC SFP)
- Non-blocking backplane 12.8 Gbps
- Dimensions: 438 (W) x 270 (D) x 44.45 (H) mm
- Max power consumption: 39 watt/133 BTU/hr
- Also available as 48VDC version, please order Part Number (STD) 91-010-134006B

ES3124PWR

Total ports available: 28

- 24-port 10/100Base-TX with 802.3af PoE
- Max PoE power (15.4 watt) on all 24 ports
- 2 x 100/1000Base-T
- 2 x Gigabit dual personality ports, choice of 100/1000Base-T (RJ45) or Gigabit Fiber (requires purchase of mini-GBIC SFP)
- Non-blocking backplane 12.8 Gbps
- Dimensions: 438 (W) x 420 (D) x 44.45 (H) mm
- Max power consumption: 436 watt/1.484 BTU/hr

ES2048

Total ports available: 50

- 48-port 10/100Base-TX
- 2 x Gigabit dual personality ports, choice of 100/1000Base-T (RJ45) or Gigabit Fiber (requires purchase of mini-GBIC SFP)
- Dimensions: 438 (W) x 300 (D) x 44.45 (H) mm
- Max power consumption: 42 watt/143 BTU/hr

ES2024A

Total ports available: 26

- 24-port 10/100Base-TX
- 2 x Gigabit dual personality ports, choice of 100/1000Base-T (RJ45) or Gigabit Fiber (requires purchase of mini-GBIC SFP)
- Non-blocking backplane 8.8 Gbps
- Fanless design, noiseless
- Dimensions: 438 (W) x 173 (D) x 44.45 (H) mm
- Max power consumption: 15 watt/51 BTU/hr

ES2024PWR

Total ports available: 26

- 24-port 10/100Base-TX with 802.3af PoE. Max PoE power available 184 watt, equals 15.4 watt on 11-ports or 7.7 watt on 24-ports
- 2 x Gigabit dual personality ports, choice of 100/1000Base-T (RJ45) or Gigabit Fiber (requires purchase of mini-GBIC SFP)
- Non-blocking backplane 8.8 Gbps
- Low noise with variable fan speed control
- Dimensions: 438 (W) x 270 (D) x 44.45 (H) mm
- Max power consumption: 200 watt/681 BTU/hr

ES2108

Total ports available: 8

- 8-port 10/100Base-TX
- Non-blocking backplane 5.6 Gbps
- Fanless design, noiseless
- Dimensions: 250 (W) x 133 (D) x 37 (H) mm
- Max power consumption: 9 watt/31 BTU/hr
- Also available as 12VDC version, please order Part Number (STD): 91-010-094006B

ES2108-G

Total ports available: 9

- 8-port 10/100Base-TX
- 1 x Gigabit dual personality port, choice of 100/1000Base-T (RJ45) or Gigabit Fiber (requires purchase of mini-GBIC SFP)
- Non-blocking backplane 5.6 Gbps
- Fanless design, noiseless
- Dimensions: 250 (W) x 133 (D) x 37 (H) mm
- Max power consumption: 9 watt/31 BTU/hr

ES2108-F

Total ports available: 9

- 8-port 10/100Base-TX
- 1 x 100Mbit Fiber SFP slot (requires purchase of 100Mbit SFP)
- Non-blocking backplane 5.6 Gbps
- Fanless design, noiseless
- Dimensions: 250 (W) x 133 (D) x 37 (H) mm
- Max power consumption: 9 watt/31 BTU/hr

ES2108PWR

Total ports available: 9

- 8-port 10/100Base-TX with 802.3af PoE support on all 8 ports (15.4 watt on each port)
- 1 x Gigabit dual personality port, choice of 100/1000Base-T (RJ45) or Gigabit Fiber
- Low noise with variable fan speed control
- Dimensions: 250 (W) x 235 (D) x 37 (H) mm
- Max power consumption: 132 watt/449 BTU/hr

ZyXEL 2000 Series Feature Highlights (2000 Series, Layer 2)

- 256 static Vlans, 4096 dynamic Vlans
- Port VLAN Trunking, Port Vlan, IP Subnet Vlan
- STP / RSTP / MSTP resilience
- LACP Link/Trunk Aggregation
- 802.1x with simultaneous MAC address authentication
- IP Source Guard
- Loop Guard
- IP Multicast & MVR (Multicast Vlan Registration)
- MAC forwarding/MAC filtering/MAC freeze
- Bandwidth Control in 64kbps steps
- 4 QoS hardware queues (8 in ES-2048)
- Queuing methods: SPQ, WRR (+ WRQ ES-2048)
- Diffserv including DSCP to 802.1p mapping
- DHCP Client
- DHCP Relay option 82
- 802.3ah OAM
- RADIUS Accounting
- TACACS+ authentication, accounting
- Jumbo frame support (GS-2024 only)
- Clone feature - copies port settings from one port to other port(s) in one step
- Basic software based IP Routing between Vlans
- Out-of-band management: Console and RJ45
- Manageable via Cisco-like CLI, Web interface and with possibility to upload text based configuration
- 1U, rackmount brackets included

ZyXEL 3000 Series Feature Highlights (3000 Series, Layer 2)

- 256 static Vlans (GS-3012/GS3012F 1024 static Vlans), 4096 dynamic Vlans
- Port VLAN Trunking, Port Vlan, IP Subnet Vlan, Vlan • stacking (QinQ)
- STP/RSTP/MRSTP/MSTP resilience
- LACP Link/Trunk Aggregation
- 802.1x with simultaneous MAC address authentication
- IP Source Guard , Loop Guard
- Dual-Rate-Three-Color Traffic management
- IP Multicast & MVR (Multicast Vlan Registration)
- MAC forwarding/MAC filtering/MAC freeze
- Layer 2/4 Access Control Lists, based on
- MAC address, Vlan, IP Address, Protocol, DSCP
- Bandwidth Control in 64kbps steps
- 8 QoS hardware queues
- Queuing methods: SPQ, WRR, WRQ
- Diffserv including DSCP to 802.1p mapping
- DHCP Client
- DHCP Relay option 82
- 802.3ah OAM
- RADIUS Accounting, RADIUS MAC log-in
- TACACS+ authentication, accounting
- Jumbo frame support (GS-3012/GS-3012F only)
- Clone feature - copies port settings from one port to other port(s) in one step
- Basic software based IP Routing between Vlans
- Out-of-band management: Console and RJ45 Manageable via Cisco-like CLI, Web interface and with possibility to upload text based configuration
- Backup Power System support
- 48 volt DC available for selected models
- 1U, rackmount brackets included

ZyXEL

Web-Managed

GS1548

Total ports available: 48

- 46 x 100/1000Base-T
- 2 x mini-GBIC SFP Slots
- Low noise with variable fan speed control
- Non-blocking backplane 96 Gbps
- Dimensions: 438 (W) x 240 (D) x 44.45 (H) mm
- Max power consumption: 54 watt/184 BTU/hr

GS1524

Total ports available: 24

- 22 x 100/1000Base-T
- 2 x mini-GBIC SFP Slots
- Low noise with variable fan speed control
- Non-blocking backplane 48 Gbps
- Dimensions: 438 (W) x 215 (D) x 44.45 (H) mm
- Max power consumption: 28 watt/95 BTU/hr

GS1552

Total ports available: 52

- 48-port 10/100Base-TX
- 2 x 100/1000Base-T
- 2 x mini-GBIC SFP Slots
- Noiseless, no fan
- Non-blocking backplane 17.6 Gbps
- Dimensions: 441 (W) x 195 (D) x 44.45 (H) mm
- Max power consumption: 26 watt/89 BTU/hr

ES1528

Total ports available: 28

- 24-port 10/100Base-TX
- 2 x 100/1000Base-T
- 2 x mini-GBIC SFP Slots
- Noiseless, no fan
- Non-blocking backplane 12.8 Gbps
- Dimensions: 438 (W) x 130 (D) x 44.45 (H) mm
- Max power consumption: 12 watt/41 BTU/hr

ZyXEL 1500 Series Feature Highlights

- Easy intuitive management via web interface
- CPU Storm Control protection
- Content aware processor:

  Auto DoS (Denial of Service) attack prevention, prevent illegal TCP/ICMP Packets. Configurable as a global or per port prevention

  Auto VoIP inspect & transmit VoIP packets with highest priority and with a guaranteed minimum bandwidth assigned

  Supported protocols:
  SIP-Session Initiation Protocol
  MGCP-Media Gateway Control Protocol
  SCCP-Skinny Client Control Protocol
- 256 static Vlans, 4096 dynamic Vlans
- Port-based Vlan
- 802.3ad Static Port (trunk) Aggregation
- Port mirroring
- Dynamic ARP for Advanced Security Protection
- Bandwidth Control in seven different steps
- 4 QoS hardware queues
- Queuing methods: SPQ, WRR
- 1U, rackmount brackets included
- Lifetime warranty including fan(s) and Power Supply for as long as you own the product with next business day advanced replacemen

Unmanaged Rackmount

GS1124A

Total ports available: 24, all gigabit

- 22-port 100/1000Base-T
- 2 x Gigabit dual personality ports, choice of 100/1000Base-T (RJ45) or Gigabit Fiber (requires purchase of mini-GBIC SFP)
- Non-blocking backplane 48 Gbps
- Dimensions: 438 (W) x 161 (D) x 44.45 (H) mm
- Max power consumption: 26.5 watt/91 BTU/hr

GS1116A

Total ports available: 16, all gigabit

- 14-port 100/1000Base-T
- 2 x Gigabit dual personality ports, choice of 100/1000Base-T (RJ45) or Gigabit Fiber (requires purchase of mini-GBIC SFP)
- Non-blocking backplane 32 Gbps
- Dimensions: 438 (W) x 161 (D) x 44.45 (H) mm
- Max power consumption: 17.3 watt/59 BTU/hr

ES1124

Total ports available: 26

- 24-port 10/100Base-TX
- 2 x Gigabit dual personality ports, choice of 100/1000Base-T (RJ45) or Gigabit Fiber (requires purchase of mini-GBIC SFP)
- Noiseless, no fan
- Non-blocking backplane 4.8 Gbps
- Dimensions: 438 (W) x 161 (D) x 44.45 (H) mm
- Max power consumption: 12 watt/41 BTU/hr

ES1024B

Total ports available: 24

- 24-port 10/100Base-TX
- Noiseless, no fan
- Non-blocking backplane 4.8 Gbps
- Dimensions: 438 (W) x 130 (D) x 44.45 (H) mm
- Max power consumption: 7.3 watt/25 BTU/hr

ES1016B

Total ports available: 16

- 16-port 10/100Base-TX
- Noiseless, no fan
- Non-blocking backplane 3.2 Gbps
- Dimensions: 438 (W) x 130 (D) x 44.45 (H) mm
- Max power consumption: 6.5 watt/22 BTU/hr

ZyXEL 1000/1100 Feature Highlights

- 802.1p priority tag pass-through
- 802.1q Vlan tag pass-through
- Jumbo Frame support (GS1116A/1124A only)
- 2 QoS hardware queues (ES1124/GS1116A/ES1124A only)
- Noiseless, no fan (ES-1x00 only)
- 1U, rackmount brackets included
- Lifetime warranty including fan(s) and Power Supply for as long as you own the product with next business day advanced replacement

Unmanaged Desktop

GS108B

Total ports available: 8, all gigabit

- 8-port 100/1000Base-T
- Non-blocking backplane 16 Gbps
- Max power consumption: 13.2 watt
- Dimensions: 165 (W) x100 (D) x 32.5 (H) mm
- External Power Supply

GS105B

Total ports available: 5, all Gigabit

- 5-port 100/1000Base-T
- Non-blocking backplane 10 Gbps
- Max power consumption: 7.5 watt
- Dimensions: 165 (W) x100 (D) x 32.5 (H) mm
- External Power Supply

ES124P

Total ports available: 24

- 24-port 10/100Base-TX
- Non-blocking backplane 4.8 Gbps
- Max power consumption: 7.26 watt
- Dimensions: 267 (W) x 152.5 (W) x 42 (H) mm
- 19" rackmount brackets included
- Internal Power Supply

ES116P

Total ports available: 16

- 16-port 10/100Base-TX
- Non-blocking backplane 3.2 Gbps
- Max power consumption: 6.44 watt
- Dimensions: 215 (W) x 133 (W) x 42 (H) mm
- 19" rackmount brackets included
- Internal Power Supply

ES108A

Total ports available: 8

- 8-port 10/100Base-TX
- 3 hardware configured QoS Priority Ports
- Non-blocking backplane 1.6 Gbps
- Max power consumption: 2.75 watt
- Dimensions: 154.5 (W) x 85 (W) x 26 (H) mm
- External Power Supply

ES108P

Total ports available: 8

- 8-port 10/100Base-TX
- Non-blocking backplane 1.6 Gbps
- Max power consumption: 3.44 watt
- Dimensions: 194 (W) x 85 (W) x 25 (H) mm
- Internal Power Supply

ES105A

Total ports available: 5

- port 10/100Base-TX
- 2 hardware configured QoS Priority Ports
- Non-blocking backplane 1.0 Gbps
- Max power consumption: 2.15 watt
- Dimensions: 121 (W) x 75 (W) x 26 (H) mm
- External Power Supply

ZyXEL 100 Series Feature Highlights

- 802.1p priority tag pass-through
- 802.1q Vlan tag pass-through (ES116P/ ES124P/GS105A/GS108A only)
- Broadcast Storm Control (ES116P/ES124P only)
- Noiseless, no fan housing with wallmount punch outs
- 2 years warranty

Media Converters

MC1000-SFP-FP

- 100/1000Base-T RJ45 to Gigabit Fiber
- Fiber Protection Mechanism
- 1 mini-GBIC SFP slot for flexible choice of SFP
- Multimode and singlemode supported
- Up to 80 km reach (depends on mini-GBIC SFP)
- Dimensions: 194 (W) x 129 (D) x 25 (H) mm
- Max power consumption: 9.6 watt

MC100FX-SC30-A

- 10/100Base-TX RJ45 to 100FX Singlemode
- For use with singlemode Fiber, SC connector
- Up to 30 km reach
- Dimensions: 74 (W) x 110 (D) x 24 (H) mm
- Max power consumption: 2.4 watt

MC100FX-SC2-A

- 10/100Base-TX RJ45 to 100FX Multimode
- For use with multimode Fiber, SC connector
- Up to 2 km reach
- Dimensions: 74 (W) x 110 (D) x 24 (H) mm
- Max power consumption: 2.4 watt

Media Converter Feature Highlights

- 802.1p priority tag pass-through
- 802.1q Vlan tag pass-through (ES-116P/ ES-124P/GS-105A/GS-108A only)
- Broadcast Storm Control (ES-116P/ES-124P only)
- Noiseless, no fan housing with wallmount punch outs

PoE Injector

POE12

- IEEE 802.3af 15.4 Watt PoE Injector
- Dimensions: 117 (W) x 60 (D) x 35 (H) mm
- Max power consumption: 17.3 watt
- Noiseless, no fan
- 2 years warranty

***All products are committed to 3-year warranty.*

Ethernet Switch
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Backup Power System

BPS120

- Up to 6 switches from the 2700/3000/4000 series can be connected to one BPS-120
- Provides power to 1 switch without traffic- or user interruption or switch rebooting in the event of a switch internal power supply failure
- Temperature, power and Fan speed monitoring
- Max power consumption: 180 watt
- Package includes 1 cable for connecting switch
- Dimensions: 440 (W) x 270 (D) x 44.45 (H) mm
- Max power consumption: 180 watt/613 BTU/hr
- 19" rackmount brackets included
- 2 years warranty

Extra BPS Cable, 1-pack

Extra BPS Cables, 5-pack

Network Management Platforms

NetAtlas Workgroup
(incl Castlerock SNMPc Workgroup)

- Auto Discovery and Device Viewer
- Templates provisioning for easy configuration
- Traffic and performance monitoring and management
- Trend reporting
- Alarm and event management
- Batch firmware upgrade
- Feature-rich Layer 2 and Layer 3 configuration
- Tight access control and log management
- Manages up to 150 ZyXEL managed Switches

NetAtlas Enterprise
(incl Castlerock SNMPc Enterprise)

All features from Workgroup, and :

- Manages up to 500 ZyXEL managed Switches
- Allow up to10 concurrent users
- Remote management
- ODBC Database export
- Client/Server architecture

Ethernet Consumer Premises Equipment

ES315
Desktop CPE

- 1 x 10/100Base-TX RJ45 WAN port, 4 x 10/100TX LAN
- 1 static Vlan per LAN Port + 1 Management Vlan and MVR
- 4 x 802.1p priority queues with Rate limiting and SPQ
- MultiCast support with Fast Leave, MVR
- Dimensions: 180 (W) x 125 (D) x 30 (H) mm
- Max power consumption: 9 watt
- Plastic housing with wallmount punch outs
- External Power Supply, Noiseless, no fan

ES315-F
100Mbit Fiber CPE

- 1 x 100Mbit SFP slot WAN port, 4 x 10/100TX LAN
- Multimode, singlemode and bi-directional Fiber supported
- 1 static Vlan per LAN Port + 1 Management Vlan and MVR
- 4 x 802.1p priority queues with Rate limiting and SPQ
- MultiCast support with Fast Leave, MVR
- Dimensions: 130 (W) x 200 (D) x 25 (H) mm
- Max power consumption: 12 watt
- Metal housing, wallmount punch outs and Fiber protection
- External Power Supply, Noiseless, no fan

Fiber Connectors

1Gb mini-GBIC SFP Fiber Transceivers

SFP-1000T
- Up to 100 m reach using standard Ethernet cable
- RJ45 connector

SFP-SX
- Multimode, up to 220 m 62.5 um/550 m 50 um cable
- LC connector

1Gb mini-GBIC SFP Fiber Transceivers

SFP-SX
- Multimode, up to 220 m 62.5 um/550 m 50 um cable
- LC connector

SFP-LX-10
- Multimode, up to 550 m reach
- Singlemode, up to 10 km reach
- LC connector

SFP-LHX-40
- Singlemode, up to 40 km reach
- LC connector

SFP-ZX-80
- Singlemode, up to 80 km reach
- LC connector

SFP-BX1310-10
- Bidirectional Singlemode, up to 10 km reach
- Send-Receive through a single-strand Fiber
- LC connector

SFP-BX1490-10
- Bidirectional Singlemode, up to 10 km reach
- Send-Receive through a single-strand Fiber
- LC connector

SFP-BX1310-40
- Bidirectional Single mode, up to 40 km reach
- Send-Receive through a single-strand Fiber
- LC connector

SFP-BX1490-40
- Bidirectional Single mode, up to 40 km reach
- Send-Receive through a single-strand Fiber
- LC connector

SFP-BX1310-60
- Bidirectional Single mode, up to 60 km reach
- Send-Receive through a single-strand Fiber
- LC connector

IMPORTANT: One BX1310 and one BX1490 is a solution, two of the same SFP will not work.

SFP-BX1490-60
- Bidirectional Single mode, up to 60 km reach
- Send-Receive through a single-strand Fiber
- LC connector

IMPORTANT: One BX1310 and one BX1490 is a solution, two of the same SFP will not work.

100Mb SFP Fiber Transceivers (only for ES-315-F/2108F/3124F)

SFP-100TX
- Up to 100m reach using standard Ethernet cable
- RJ45 connector

SFP-100FX-2
- Multimode, up to 550 m reach
- LC connector

SFP-100LX-20
- Multimode, up to 550 m reach
- LC connector

SFP-100BX1310-20
- Bidirectional Single mode, up to 10km reach
- Send-Receive through a single-strand Fiber
- LC connector

SFP-100BX1550-20

- Bidirectional Single mode, up to 10 km reach
- Send-Receive through a single-strand Fiber
- LC connector

IMPORTANT: One BX1310 and one BX1550 is a solution, two of the same SFP will not work.

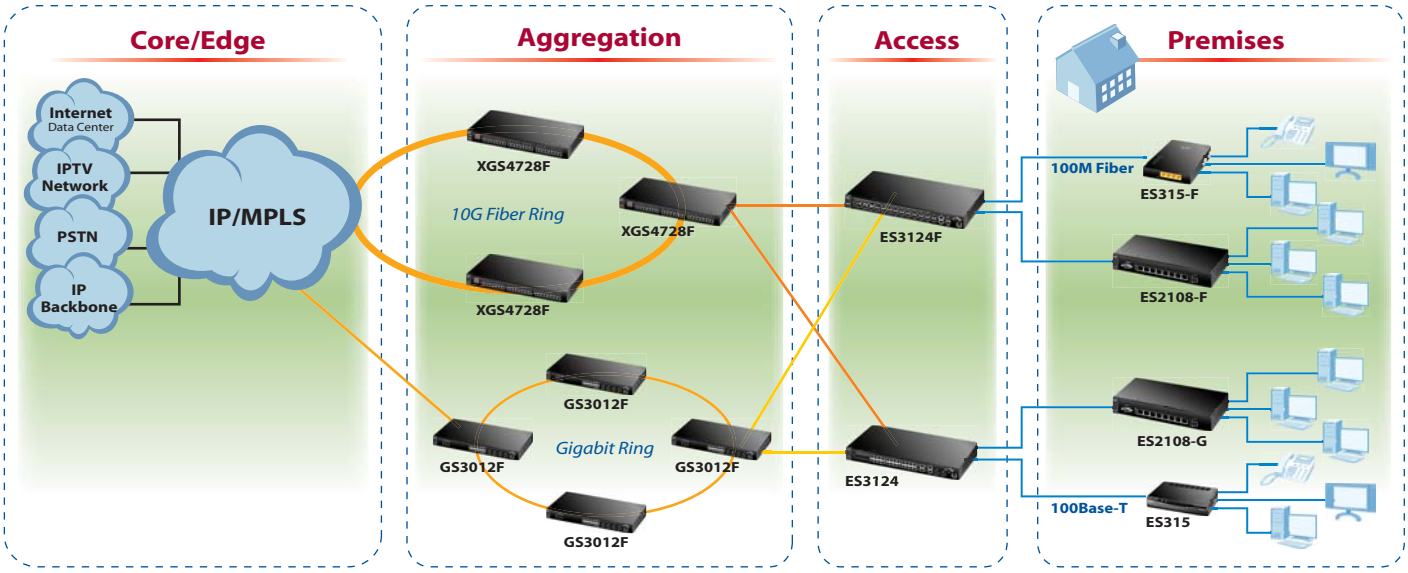
Cable Guide

Technology	Optical Receiver Density	Wave Length	Transmission distance vs Cable Specification			
			Copper Cat5	Multimode		Singlemode
				62.5 um	50 um	9/10 um
10/100Base-TX			100 m			
1000Base-T			100 m			
100FX	-32 dBm	1310 nm		2 km	2 km	
100LX	-30 dBm	1310 nm		550 m	550 m	20 km
100BX1310	-34 dBm	1310 nm				20 km
100BX1550	-34 dBm	1550 nm				20 km
SFP-SX	-17 dBm	850 nm		220 m	550 m	
SFP-LX-10	-20 dBm	1310 nm		550 m	550 m	10 km
SFP-BX1310	-20 dBm	1310 nm				10-60 km
SFP-BX1490	-20 dBm	1490 nm				10-60 km
SFP-LHX-40	-23 dBm	1310 nm				40 km
SFP-ZX-80	-24 dBm	1550 nm				80 km

Application Scenario

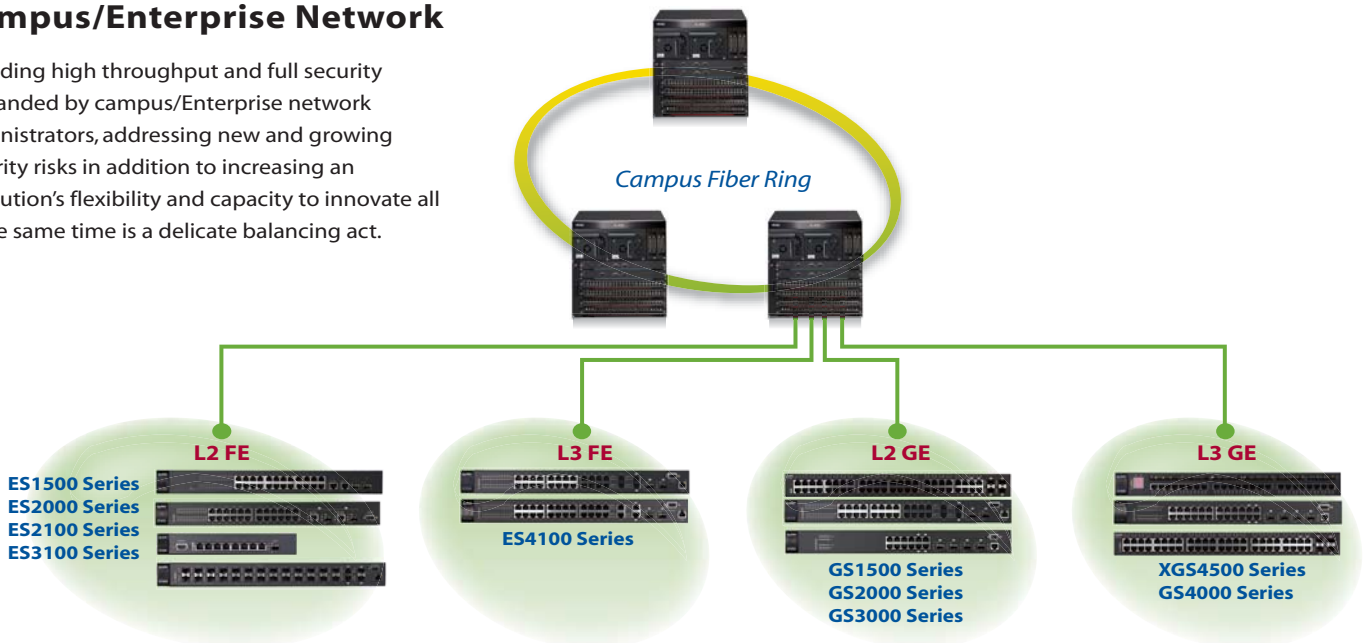
Services Provider Network

In order to satisfy home and commercial subscribers with Triple-Play services incorporating voice, video and data delivery, ZyXEL solutions help services provider to offer responsive, rich and personalized online experience for constant connectivity and therefore more revenue.



Campus/Enterprise Network

Providing high throughput and full security demanded by campus/Enterprise network administrators, addressing new and growing security risks in addition to increasing an institution's flexibility and capacity to innovate all at the same time is a delicate balancing act.



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